

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

5 GGCACGAGGG AGAACAAAAA TGGCAGCATT CTTGTTCTTC CTCACCATCG CAGCCTTCAC 60
 TGCCCCCATC TACTCTTCTC GTGCACCCCTT AACGTCGGCA GCTGTCCGCG ACCCTGAATT 120
 AGTAGTACAG GAAGTACAAA GAAGCTTGAA CGTGTCGCGG CGGCGACTGG GCTACTTGTC 180
 10 ATGCGGCACC GGCAATCCGA TCGACGACTG CTGGCGGTGC GACCCTGACT GGGCTGACAA 240
 CCGGCAGCGG CTCGCGGACT GCGCCATCGG GTTCGGGAAG AACGCGATTG GGGGCAGGGA 300
 15 CGGCGAGATA TACGTGGTGA CCGACAGTGG CGACNACNAC CCCGTCAATC CGAAGCCGGG 360
 CACGCTCCGG TACGCCGTCA TCCANGAGGG AGCCGCTGTG GATCATCTTC AAGCGCGACA 420
 TGGTCATCCA GCTGAAGGAA GGAGCTCATC ATGAAACTCC CACANAGACC ATCGACGGCC 480
 20 GGGGCGCCAG CGTCCACATC TCCGGGGGGC CGTGCATCAC CACCAGTNCG TCNCCAACAT 540
 CATCATCCAC GGGCGTCCAC TTCCACNAAT GCAANCAGGG CGGGGAACGC CTTACGTTTCG 600
 CGACTCCCCC AGGGCACTAC GGGTGGCGCA CCGGTGTCCG AACGGCNANG GGGTTTTCAT 660
 25 CTTCCGCGGG AACCACCTTCT GGGGTCA 687

(2) INFORMATION FOR SEQ ID NO: 15:

- 30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 741 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 35 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

40 (vii) IMMEDIATE SOURCE:
 (B) CLONE: U-U84

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

45 TCCACATTGC CAATGGCGCC TGCATCACCA TNCAGTACAT CACCAACGTC ATCATCCATG 60
 GCCTCCACAT CCACGACTGC AAGCCCACCG GGAATGCCAT GGTCCGCAGC TCTCCTTCTC 120
 50 ACTATGGATG GAGAACCATG GCTGATGGGG ATGCCGTTTC CATTTCGGC TCCAGCCACA 180
 TTTGGGTGGA CCACTGCTCT CTGTCCAAC TCGCCGATGG ACTTGTCGAT GCCGTCATGG 240
 55 GCTCCACTGC CATTACGGTC TCCAACAATT ACTTCACCCA CCACAATGAG GTCATGCTTT 300
 TGGGACACAC TGATTCTTAT GCAAGGGACA GCATCATGCA AGTAACGATC GCATTAAACC 360
 ATTTTGGTGA AGGTCTGATT CAGAGAATGC CCAGGTGCAG GCATGGCTAC TTCCACGTGG 420
 60 TAAACAATGA CTACACGCAC TGGGAGATGT ACGCCATTGG CGGTAGCGCG AATCCAACGA 480
 TCAACAGTCA AGGCAACCGA TACCTTGCGC CGACCAATCC ATTTGCAAAG GAAGTAACAA 540
 65 AAAGGGTGGG CACAGATCAA AGCACGTGGA AAAACTGGAA TTGGANGTCN GAAGGTGACC 600
 TGCTTCTGAA TGGTGCTTTT TTCACCTTTC CCGTGCANGG GCTTTCACCC ANCTACGCAC 660
 GGGCCTCCAC TTTGGGGGCA ACCCTCTTCC TTNGTTGANA CACTGACTCT GATGCTGGGG 720
 70 TCCTGTTTTG CCAATTCGGN C 741

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 727 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

- (B) CLONE: U-U89

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGCACGAGTT CTCTCCTTCG ATCACATCTT TTTGCTCTGG GAAACGTGAG AGGTGAGAAG 60
AGGGCGGCAA TGACGGCGGG TTTAAGATGG ATTCCTCCTC TGCTTCTTCT TCTTCTGGGC 120
TTCCTGCTGG TTTTGAACGG AAGTCGGGGG TGGATTGGAA GCGAGCGGTC CTCTGGCTCG 180
AGGAATGGCG GAGCATCGCG GAGGAGCTTG AGAGAGGCCT CCGCGAACGC GACCAGCGCC 240
GATGCTTCCT TGG AAGAGAG GGCTGTAACC AGGGCAGCAG AAGCCGCANT CGACGACCCC 300
GAGGAGGTTG CTTGACGGT CTTGACGACC ATAATCAACA GCACGGCTCG CAGATCTCTT 360
GGTTATCTGT CGTGCGGTT AGGCAACCCG ATCGACGACT GCTGGCGGTG CGACCCCGAT 420
TGGCATGTCA ACAGAAAAA GCTCGCTGAC TGCGGCATTG GCTTTGGCCC GCAACGCGAT 480
ANGTGCCGC CACNGGGANT TGTNCNTTGT TGACAGACTC CGGGGACGAT GATCCCGTGA 540
ATCCTCCCCC GGAACACTTA ATATTCCCCG TCATCCCAGA NCTNCCCCTC TGGATCNCCT 600
TTTAAACACG ACATTGGAAA TCNCCCCNG GAAGAACTCC TTTNTAACCG CTTTNNAACA 660
TCNATGGACN CGTGTCCACN TTCCACNTTT GCCAATGGCG CCTGCCTCNC CANCCNATTT 720
AATCNCC 727

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 842 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

- (B) CLONE: U-U115

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGCAGAGGG AGAACAAAAA TGGCAGCATT CATGTTCTTC CTCACCATCG CAGCCTTCAC 60
TGCCCCCGTC TACTCTTCTC GTGCACCCTT AACGTCAGCA GCTGTCCGCG ACCCTGAATT 120
AGTAGTACAG GAAGTACAAA GAAGCTTGAA CGTGTGCGCG CGGCGACTGG GCTACTTGTC 180
ATGCGGCACC GGCAATCCGA TCGACGACTG CTGGCGGTGC GACCCTGACT GGGCTGACAA 240
CCGGCAGCGG CTCGCTGACT GCGCCATCGG GTTCGGGAAG AACGCGATTT GGGGCAGGSA 300

CGGCGAGATA TACGTGGTGA CCGACAGTGG CGACNACGAC CCCGTCAATC CGAAAACGGG 360
CACGCTCCGG TACGCCGTCA TCCAGGAGGA GCCGCTGTGG ATCATCTTCA AGCGCGACAT 420
GGTCATCCAG CTGAAGGAGG AGCTCATCAT GAACTCCAC AAGACCATCG ACGGCCGGGG 480
CGCCAGCGTC CACATCTCCG GCGGGCCGTG CATCACCACC AGTACGTCAC CAACATCATC 540
ATCCACGGCG TCCACATCCA CGAATGCAAG CAGGGCGGGA ACGCGTNCGT TCGCNACTCC 600
CCAAGGGCAC TACGGGTGG CGCACNGTGT TCNGACGGCG ACGGGTGTCC ATCTTCCGCG 660
GGAACCACTC TGGGTCCAAC CACTGCANCG CTGTTCCTCA CTTGGCCAC CNAANTGGGC 720
CTTCNTCCC AACCCCCATT TCCTTGGGAT TCCCCCGC CAATTCCCC ATTTTCCAAC 780
NAACTTNCTT TGAACCNCC CNTGAANAAG GTCCTTGCTG CTGGGTCCA CCAACAATT 840
NA 842

(2) INFORMATION FOR SEQ ID NO: 18:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 724 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

- (vii) IMMEDIATE SOURCE:
(B) CLONE: U-U117

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGCACGAGTC TCCTTCGATC ACATCTTTTT GCTCTGGGAA ACGTGAGAGG TGAGACGAGG 60
GCGGCAATGA CGGCGGGTTT AAGATGGATT CCTCTCTGC TTCTTCTTCT TATGGGCTTC 120
CTGCTGTTT TGAACGGAGG TCGGGGTGG ATTGGAAGCG AGAGGTCCTC TGGCTCGAGG 180
AATGGCGGAG CATCGCGGAG GAGCTTGAGA NAGGCCTCCG CGAACGCGAC CAGCGCCGAT 240
GCTTCCTTGG AAGACAGGGC TGTAACCAGG GCAGCAGAAG CCGCAGTCGA TGACCCCGAG 300
GAGGTGCTT CGACGGTCCT GACGACCATA ATCAACAGCA CGGCTCGAAN ATCTCTTGGT 360
TATGTGTCGT GCGGTTGAG CAACCCGATC GACNACTGCT GGCGGTGCGA CCCCATTGG 420
CATNTCAACA GAAAAAGCT CGCTGACTGT GGCATTGGCT TTGGCCGCA CCGATANGT 480
GGCCGCGACG GGGANTTGTN CGTTGTGACA GACTCCGGGG ACGATGATCC CCNTGAATCC 540
TCCCCGGGA AACTTANAT NCCGTCNTC CNNGAANTTT CCCCTCTGGA TCNCTTTAA 600
ACCCACNTGG ANATCCCCCN CNAGGAAGAA CTCCTTATGA ACNGCTTTT AAAACATCGA 660
TNGGACCCNG TTTCCACTTC CNCATTNGCC NAATTGGGCG CCCTGGCCNT CCNCCNTCC 720
CCAA 724

(2) INFORMATION FOR SEQ ID NO: 19:

- (1) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 797 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single